

Title (en)

Method of controlling the operation of an internal combustion engine of the two-stroke cycle and direct fuel injection type and internal combustion engine

Title (de)

Verfahren zur Steuerung des Betriebs einer direkteinspritzenden Zweitaktbrennkraftmaschine

Title (fr)

Procédé de contrôle du fonctionnement d'un moteur à combustion interne deux temps et à injection directe

Publication

EP 0806559 A1 19971112 (EN)

Application

EP 97107032 A 19970428

Priority

JP 10825296 A 19960426

Abstract (en)

A method of controlling the operation of an internal combustion engine of the two-stroke cycle and direct fuel injection type, wherein at least in a low load range below a predetermined first load boundary fuel is intermittently or once in a plural number of cycles, respectively, injected, and wherein in a high load range above said first load boundary fuel is injected in every cycle, at least in the vicinity below said first load boundary the amount of the injected fuel per injection cycle is larger than the amount of injected fuel per cycle in the vicinity but above said first load boundary. <IMAGE>

IPC 1-7

F02D 17/02

IPC 8 full level

F02B 61/02 (2006.01); **F02B 75/20** (2006.01); **F02D 17/02** (2006.01); **F02B 75/02** (2006.01); **F02B 75/12** (2006.01); **F02B 75/18** (2006.01)

CPC (source: EP US)

F02B 61/02 (2013.01 - EP US); **F02B 75/20** (2013.01 - EP US); **F02D 17/02** (2013.01 - EP US); **F02B 2075/025** (2013.01 - EP US); **F02B 2075/125** (2013.01 - EP US); **F02B 2075/1812** (2013.01 - EP US); **Y02T 10/12** (2013.01 - EP US)

Citation (search report)

- [A] US 4991558 A 19910212 - DALY PAUL D [US], et al
- [A] US 5259344 A 19931109 - HUANG HUEI-HUAY [TW], et al
- [A] WO 8909872 A1 19891019 - FICHT GMBH [DE]
- [A] US 5038739 A 19910813 - ISHII MITSUNORI [JP]
- [A] US 5097811 A 19920324 - BAUMUELLER ANDREAS [DE]

Cited by

EP0831217A3; GB2402490A; GB2402490B

Designated contracting state (EPC)

DE FR IT

DOCDB simple family (publication)

EP 0806559 A1 19971112; **EP 0806559 B1 20020327**; DE 69711258 D1 20020502; DE 69711258 T2 20020718; US 5769041 A 19980623

DOCDB simple family (application)

EP 97107032 A 19970428; DE 69711258 T 19970428; US 84605997 A 19970425